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APPENDIX 2

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Agricrop - Affray 300

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Product: AFFRAY 300 ( Previously AF 300 )

New non flammable formulation now available in new easy to pour 5 litre plastic bottles

[Label](#)

[MSDS](#)

[Mother of Millions - NRM facts sheet](#)

[Mother of Millions - Flower heads](#)

[Mother of Millions - General photograph](#)

[Water Hyacinth - NRM facts sheet](#)

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last updated: 21/1/2004 © 2002 Agricrop Pty Ltd

[http://www.agricrop.com.au/prod\\_affray300.htm](http://www.agricrop.com.au/prod_affray300.htm)

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**AGRICROP**

ABN 100 84 473 309

EMERGENCY TELEPHONE  
(All Hours) 1800 033 111

## MATERIAL SAFETY DATA SHEET

**AGRICROP AFFRAY 300 HERBICIDE**Agricrop Pty Ltd  
1589 Wynnum Road  
Tingalpa, Queensland 4173

Telephone: 07 3348 4113 - Facsimile: 07 3348 2702

Hazardous according to criteria of Worksafe Australia.

**IDENTIFICATION**Product Name: Agricrop AFFRAY 300 HerbicideOther Names:Hazchem Code:UN No:Dangerous Goods Class:Sub Risk Class: No Subsidiary Risk.SUSDP: S5 (Fed) S5 (NSW) S5 (Vic) S5 (WA) S5 (Old) S5 (Tas) S5 (NT)Packaging Group:EPG: None allocated.Poison Schedule: Not ScheduledProduct Type: Selective herbicide. Emulsifiable ConcentrateUses: For the integrated control of Groundsel Bush, Mother-of-Millions, Noogoora Burr, Bathurst Burr, Water Hyacinth and other weeds.**Physical appearance & Properties:**Appearance & Odour: Light straw coloured liquid with typical hydrocarbonForm: LiquidMelting/softening point: -20°C (for solvent)Boiling point: > 170°C (for solvent)Vapour pressure: Active ingredient considered non-volatile.Volatile materials: Approx. 30%Flashpoint: 70°CFlammability Limits: No Information availableAutoignition Temp.: <450°CSpecific gravity: 1.088Solubility in water: Insoluble in water, emulsifies in waterOther Properties: Emulsifiers in water**Ingredients:**

Chemical entity	CAS No	Proportion
2,4-dichlorophenoxyacetic acid	84-75-7	300 g/L
Solvesso 150	64742-94-5	259 g/L
Synthetic ethoxylate alcohol	68439-48-3	50% w/w

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## MATERIAL SAFETY DATA SHEET

## II HEALTH HAZARD DATA

## Acute Effects:

**Swallowed:** A significant hazard exists if the concentrate is accidentally swallowed. Absorption of relatively large amounts of 2,4-D can produce headaches, nausea, lethargy, motor weakness and inco-ordination.

The concentrate is considered harmful if swallowed, when classified according to the Worksafe Criteria.

**Eye:** The concentrate is irritating to the eyes. No permanent effects on the eyes is expected from a single exposure.

**Skin:** The concentrate is irritating to the skin. Prolonged or repeated exposure may cause defatting of the skin that could lead to secondary dermatitis. Some absorption of 2,4-D acid is possible if contact with the concentrate is prolonged.

**Inhaled:** Inhalation of the solvent may lead to headache or nausea if exposure is prolonged. Avoid breathing spray mist.

**Primary** route of exposure is inhalation and skin and eye contact.

## Chronic Effects:

**Chronic Over Exposure:** Repeated absorption of relatively large doses of 2,4-D presents a risk to the liver and kidneys.

## Other Health Hazard Information:

If poisoning occurs, contact a Doctor or Poisons Information Centre 13 11 26.

## First Aid:

**Swallowed:** If swallowed do NOT induce vomiting; seek medical advice immediately and show this container or label or contact the Poisons Information Centre on 13 11 26. Make every effort to prevent vomit from entering the lungs by careful placement of the patient.

The above first aid instructions are mandated by the Commonwealth Department of Health and Aged Care via the National Drugs and Poison Schedule. These instructions are suitable for ingestion of spray solution and small amounts of concentrate; however, if SUBSTANTIAL AMOUNTS of the CONCENTRATE have been swallowed (more than 50mL) AND if medical assistance is more than 30 minutes away, the induction of vomiting should be CONSIDERED, preferably based on MEDICAL ADVICE if a physician can be contacted by phone. All care must be taken to prevent vomit from being inhaled. Do not give anything by mouth to a semi-conscious or unconscious person.

**Eye:** Immediately irrigate with copious quantity of water for at least 15 minutes. Eyelids to be held open.

**Skin:** Wash affected areas thoroughly with soap and water. Remove contaminated clothing and laundry before re-use.

**Inhaled:** Remove to fresh air until recovered.

## First Aid Facilities:

**Advice to doctor:** Treat symptomatically.

Aspiration of vomitus may lead to pulmonary pneumonitis, which may be serious, especially in young children.

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**Toxicity Data:**

2,4-D (2,4-dichlorophenoxyacetic acid)  
 LD<sub>50</sub> Oral (Rat): 899mg/kg  
 LD<sub>50</sub> Dermal (Rabbit): >2,000mg/kg  
 LC<sub>50</sub> Inhalation (Rat): >1.79mg/L (maximum attainable concentration)  
 Not toxic to bees  
 LC<sub>50</sub> (Rainbow trout): ~100mg/L  
 LC<sub>50</sub> (Daphnia): 1.4mg/L  
 LC<sub>50</sub> (Mallard Duck): >5,000mg/kg diet

In trials using 2,4-D as a drug, studies on volunteers have shown that doses of between 5 and 38mg/kg body weight do not cause any acute toxic effects. Formulated 2,4-D products can be absorbed by ingestion, inhalation (spray mist) and through the skin. Studies of users (sprayers) have shown that absorption through the skin is the most common route. When used with good agricultural spraying practice and good personal hygiene, absorption of 2,4-D is very low. 2,4-D does not accumulate in the body; a single dose of 2,4-D is rapidly excreted (in a few days), mainly in the urine.

The Australian Acceptable Daily Intake (ADI) of 2,4-D for a human is 0.01mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 1.0mg/kg/day, the level determined to show no effects during long term exposure for the most sensitive indicators and the most sensitive species. (Ref: Comm. Dept. of Health and Ageing, 'ADI List', TGA, March 20002).

**III PRECAUTIONS FOR USE****Exposure Standards:**

No exposure limits have been set for this product, however, an exposure limit has been set for 2,4-D acid (solid) at 10mg/m<sup>3</sup>. The manufacturer (Exxon) of the solvent (Solvesso 150) recommends an occupational exposure limit of 100mg/m<sup>3</sup> (17ppm) TWA total hydrocarbon.

**Engineering Controls:**

Natural only although a local exhaust should be provided if material is handled in confined spaces.

**Personal Protection:**

Avoid contact with eyes and skin. DO NOT inhale spray mist. When preparing spray wear PVC or rubber apron, elbow length PVC gloves and face shield. When using the prepared spray wear face shield. If product on skin, immediately wash area with soap and water. After use and before eating, drinking and smoking, wash hands, arms and face thoroughly with soap and water. After each day's use, wash gloves, face-shield and contaminated clothing.

**Flammability:**

Non flammable, combustible C1.

**Environment**

Marine Pollutant

2,4-D products do not appear to pose any threat to birds  
 2,4-D products do not appear to pose any threat to fish other than in very high concentrations.

Do NOT spray in high winds. Do not contaminate dams, waterways or streams with this product or used containers. DO NOT use this container for any other purpose. After use, rinse out container thoroughly and dispose of safely in an approved manner.

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Equipment that has been used for this product should not be used for the application of other materials to sensitive plants, unless it has been well washed out with hot, soapy water or 1% ammonia solution, followed by several clear water rinses.  
Do not use on or in situations where damage to susceptible crop plants such as cotton, tobacco, tomatoes, flowers, vines, fruit trees or other susceptible crop plants may result from direct application or spray drift.

## IV SAFE HANDLING INFORMATION

## Storage &amp; Transport:

Storage:

Store in original container, tightly sealed, in a safe place away from seeds, fungicidal and insecticidal sprays or fertilisers so that cross contamination cannot occur.

Transport Details:

Considered non hazardous for transport by the Australian Code for the Transport of Dangerous Goods by Road and Rail.

Packaging and Labelling:

## CAUTION

KEEP OUT OF REACH OF CHILDREN

READ SAFETY DIRECTIONS BEFORE OPENING OR USING

Not to be used for any purpose or in any manner contrary to the label unless authorised under appropriate legislation.

The product has been assessed according to the Worksafe criteria for classifying hazardous substances and is classified as hazardous:

## Risk Phrases:

R22 Harmful if swallowed.

R36/37/38 Irritating to eyes, respiratory system and skin.

R65 Harmful: may cause lung damage if swallowed.

## Safety Phrases:

S2 Keep out of reach of children.

S23 Do not breathe vapour.

S24 Avoid contact with skin.

S28 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S36/37 Wear suitable protective clothing and gloves.

S62 If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

## Spills and disposals:

Contain spill and absorb with sand or proprietary absorbent (vermiculite).

Prevent from entering drains or waterways or sewers.

Collect in sealed open top containers for disposal.

Dispose of by industrial incineration or dumping at a site approved by local authorities.

Triple rinse containers, add rinsate to the spray tank, then offer container for recycling/reconditioning, or puncture top, sides and bottom and dispose of in a landfill in accordance with local regulations. On-site disposal of concentrate is not acceptable.

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**Fire/Explosion Hazard:****Extinguishing Media:** Water fog, dry chemical, foam, CO<sub>2</sub>.**Special Fire Fighting Procedures:** Breathable air apparatus may have to be worn if material is involved in fires especially in confined spaces. Keep upwind.**Unusual fire & Explosion Hazard:** May emit toxic fumes of hydrogen chloride, phosgene and carbon monoxide if material is involved in fires or subjected to extreme heat.**Reactivity Data:**Store away from oxidising agents, may react violently with strong oxidising agents.  
Polymerisation is not possible.**V OTHER INFORMATION**

All due care and skill, so far as practicable, has been applied in the preparation and collation of the information in this MSDS.

Each user of the Product named in this MSDS should read and consider the information contained in this MSDS in the context of how the Product will be stored, handled, used or applied in the workplace. In all circumstances, it is the responsibility of the user of the Product to ensure that they have sought out the relevant safety data appropriate to their particular situation.

Nothing contained in this MSDS shall be construed as a representation or recommendation to the user about the suitability or otherwise of the Product named in this MSDS for the user's particular situation. If the user requires any clarification or further information, the user should contact Agricrop.

**CONTACT POINT:**Agricrop Pty Ltd  
1589 Wynnum Road  
Tingalpa, Queensland 4173

Telephone: 07 3348 4113 - Facsimile: 07 3348 2702

National Poisons Information Centre: Dial 13 11 26 (from anywhere in Australia)

Please read all labels carefully before using product.

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